

INTERPRETATION TABLE

HLA-B*53 SSP subtyping

Amplification patterns of the B*53:01 to B*53:24 alleles

	Well ⁵												
	1	2	3	4	5	6	7	8	9	10	11	12	
Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105	
PCR product(s)			290			235							
Length of int. pos. control ¹	800	1070	800	800	800	800	800	800	1070	1070	1070	800	1070
5'-primer(s) ²	206	355	206	49	206	106	106	527	527	419	419	357	
	5' -gAC 3'	5' -TCA 3'	5' -gAC 3'	5' -CAG 3'	5' -gAC 3'	5' -CCA 3'	5' -CCA 3'	5' -TgA 3'	5' -TgT 3'	5' -gTC 3'	5' -gTC 3'	5' -Tgg 3'	
			355	419	419	419	368						
			5' -TCA 3'	5' -gTT 3'	5' -gTC 3'	5' -gTC 3'	5' -gTC 3'						
				419			368						
				5' -gTT 3'			5' -gTC 3'						
				419									
				5' -gTT 3'									
3'-primer(s) ³	309	583	301	79	309	302	197	3 rd I	559	527	463	420	
	5' -ATC 3'	5' -gTg 3'	5' -gTC 3'	5' -gTA 3'	5' -gTg 3'	5' -ggC 3'	5' -gAA 3'	5' -TAT 3'	5' -Cag 3'	5' -CCA 3'	5' -gCT 3'	5' -gCT 3'	
			302	559	538	583	463			527			
			5' -ggC 3'	5' -Cag 3'	5' -gTC 3'	5' -gTg 3'	5' -gCT 3'			5' -CCA 3'			
			603										
			5' -gTg 3'										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	
HLA-B allele													
*53:01:01-53:01:05	1								9	10	11		
*53:02	1	2				6			9	10	11		
*53:03			3						9	10	11		
*53:04	1			4					9				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	
Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105	
PCR product(s)			290			235							

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*53:05	1		3			6			9	10	11	
*53:06	1	2				6		8			11	
*53:07	1			4			7		9			
*53:08:01-53:08:02	1							8			11	
*53:09					5				9	10	11	
*53:10	1						7		9	10	11	
*53:11					5				9	w	11	
*53:12					5	6			9	10	11	
*53:13					5				9	10	11	
*53:14	1								9	10	11	
*53:15	1		3						9	10	11	
*53:16	1		3			6			9	w	11	
*53:17	1								9	10	11	
*53:18	1			4					9	10	11	
*53:19, 52:03, 52:10 ⁴	1								9			
*53:20	1								9	10	11	
*53:21	1								9	10	11	
*53:22	1				5				9		11	
*53:23	1								9	10	11	
*53:24	1								9	w	11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:02:01-07:08, 07:10, 07:12-07:16, 07:18:01-07:19, 07:21-07:23, 07:27-07:33, 07:35-07:42, 07:44-07:47, 07:49N-07:50, 07:52-07:59, 07:61-07:64, 07:66-07:77, 07:79, 07:81-07:114, 07:116-07:117, 08:20, 08:53, 14:03, 15:30, 15:33, 15:45, 15:63, 15:77-15:78:02, 15:116, 15:141, 15:150, 15:168, 27:25, 35:44, 35:118, 39:18, 39:36, 40:15-40:16, 40:23, 40:32, 40:98, 48:05, 48:08, 57:09, 57:13								8				
*07:09, 07:11, 07:17, 07:115								8				
*07:20, 07:24, 07:60, 15:99, 44:76								8				
*07:26, 07:34, 07:43, 07:80, 13:20, 14:01:01-14:02:06, 14:04, 14:06:01-14:09, 14:11-14:18, 15:09-15:10:02, 15:17:01:01-15:17:02, 15:37, 15:72, 15:90, 15:177, 15:196, 15:208, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:24, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 38:10, 39:35, 40:05, 40:26, 40:51, 40:95, 40:148, 44:79, 48:15, 51:104, 52:02, 52:16, 55:01:04, 55:17, 55:28, 55:44, 56:05:01-56:05:02, 56:21, 78:02:01-78:02:02, 78:05-78:06								8				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:48, 08:13, 08:55, 13:01:01-13:01:05, 13:06-13:07N, 13:11-13:13, 13:17, 13:21-13:23, 13:28-13:29, 13:35-13:36, 13:39, 15:86, 15:162, 15:188, 27:01-27:03, 27:05:02-27:05:15, 27:07-27:09, 27:11-27:14, 27:16-27:17, 27:19, 27:23, 27:26-27:37, 27:39, 27:42-27:44, 27:46, 27:48-27:51, 27:53, 27:55-27:62, 27:64N-27:65N, 27:67, 27:70-27:73, 35:03:06, 35:31, 35:33, 35:65Q, 35:88, 38:01:01-38:05, 38:08-38:09, 38:11-38:23, 38:25-38:26, 39:01:01:01-39:01:01:02L, 39:01:03-39:06:02, 39:10, 39:12-39:17, 39:20, 39:22-39:23, 39:25N-39:31, 39:34, 39:38Q-39:42, 39:44-39:62												
40:01:01-40:02:11, 40:04, 40:06:01:01-40:14:03, 40:18-40:19, 40:21-40:22N, 40:24-40:25, 40:27, 40:29-40:31, 40:33-40:37, 40:39-40:40, 40:42-40:50, 40:53-40:58, 40:61-40:62, 40:64-40:70, 40:72:01-40:91, 40:93-40:94, 40:96-40:97, 40:99-40:104, 40:106-40:127, 40:129-40:135, 40:137-40:147, 40:149-40:157, 44:30-44:31, 44:64:01-44:64:02, 44:92, 47:01:01:01-47:07, 48:01:01-48:01:03, 48:03:01-48:04, 48:06-48:07, 48:09-48:13, 48:16-48:18, 48:20-48:22, 54:04, 54:11, 54:15, 55:04, 55:13, 55:27, 55:39, 55:42, 56:10, 56:12, 59:02-59:03, 67:01:01-67:03, 81:01-81:05												
*07:65								8				
*07:78, 13:31, 54:20, 55:09, 55:21								8				12
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*08:21, 27:47, 44:02:01:01-44:02:07, 44:02:09-44:02:14, 44:05:01, 44:08-44:09, 44:11-44:12, 44:14, 44:19N-44:20, 44:22-44:25, 44:27, 44:33-44:35, 44:41-44:42, 44:44, 44:48-44:49, 44:51-44:53, 44:55, 44:58N-44:59, 44:62-44:63, 44:66-44:68, 44:70-44:75, 44:78, 44:80, 44:84, 44:86-44:91, 44:93, 44:95, 44:97, 44:99-44:100, 44:104, 44:106, 44:113, 83:01, C*03:36, C*03:77									9			
*08:25, 15:48, 27:38, 35:04:01-35:04:03, 35:09:01-35:09:02, 35:12:01-35:12:02, 35:22, 35:34, 35:39, 35:149, 40:63, 40:92, 44:03:01-44:03:12, 44:07, 44:13, 44:26, 44:29, 44:32, 44:36-44:40, 44:45-44:47, 44:50, 44:54, 44:57, 44:60-44:61N, 44:65, 44:69, 44:77, 44:81-44:82, 44:85, 44:94, 44:96, 44:98, 44:103, 44:105, 44:107-44:108N, 44:110-44:111, 44:114-44:115, 55:08, 56:15, 57:03:01-57:03:02, 57:07, 57:17, 57:32, 78:04									9			
*08:28, 08:35, 08:37, 42:09					5							
*08:32												
*08:49, 08:60, 42:13			3									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*13:16, 15:42, 49:07, 55:01:01-55:01:03, 55:01:05-55:01:06, 55:03, 55:05, 55:11, 55:15, 55:24-55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:45					8				12			
*13:18, 45:08, 45:10, 54:10, 55:37									12			
*13:25					6							
*13:26, 15:52, 15:114, 15:124, 15:186, 27:41, 35:01:22, 35:15, 35:35, 35:93, 35:140, 39:07, 46:21:01-46:21:02, 48:14, 54:09, 54:14, 55:23, 55:32, 56:18, 57:01:03, 57:25-57:26									10		11	
*14:05									8			
*14:10, 35:96, 40:28	2								8			
*14:19, 15:133, 50:09, 50:12			4						8			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290				235					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*15:03:01-15:03:03, 15:16, 15:18:01-15:18:04, 15:23, 15:25:03, 15:29, 15:39:01-15:40, 15:61-15:62, 15:64, 15:67, 15:69, 15:74, 15:80, 15:93, 15:95, 15:98, 15:103, 15:108, 15:119, 15:127, 15:131-15:132, 15:134, 15:138, 15:153, 15:158, 15:161, 15:173, 15:194-15:195, 15:197-15:198, 35:11:01-35:11:02, 40:158, 46:08, 49:04, 55:14, 57:22								8			11	
*15:07:01-15:07:02, 15:68, 46:12								8			11	
*15:31									9	10	w	
*15:32							7	8			11	
*15:38:01-15:38:02						6		8			11	
*15:51, 15:179, 35:115, 44:17, 45:09, 57:24					5				9		11	
*15:55									9	10	w	
*15:58, 15:73, 15:137				4				8				
*15:65, 35:99								8			11	
*15:75, 15:105, 15:111N, 15:145											11	
*15:84, 35:08:01-35:08:04, 35:45, 35:61, 35:80, 35:100, 35:105, 35:142, 57:19									9	w	11	
*15:88											w	
*15:107, 35:53N, 35:64, 35:114, 57:01:05, 57:31									9	10		
*15:115						6		8			11	
*15:128, 15:144								8			w	
*15:176, 15:200											11	
*15:185						6			9	10	11	
*15:199					5			8			11	
*15:202								8			11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*18:01:01-18:01:03, 18:01:05-18:02, 18:05-18:06, 18:08, 18:12, 18:17N, 18:23N-18:24, 18:27-18:28, 18:31-18:32, 18:34, 18:38-18:39, 18:42-18:47, 18:49-18:52						6				10	11	

*18:01:04, 18:40						6				10		
*18:03						6				10	11	
*18:04, 18:25						6				10	11	
*18:07:01-18:07:02, 18:29, 18:33						6				10	11	
*18:09					5	6				10	11	
*18:10-18:11, 18:35										10	11	
*18:13						6				w	11	
*18:14						6				10	11	
*18:15						6		8			11	
*18:18						6	7			10	11	
*18:19, 18:30						6		8			11	
*18:20						6				10	w	
*18:21								8				
*18:22		2				6				10	11	
*18:26, 18:41												
*18:36						6			9	10	11	
*18:37, 18:48, 39:43						6				10	11	
*27:52			3									
*35:02:01-35:02:04, 35:83, 35:95, 35:129N									9			
*35:03:01-35:03:05, 35:03:07, 35:06, 35:13, 35:36, 35:55-35:56, 35:59, 35:70, 35:74-35:75, 35:85, 35:98, 35:106, 35:127-35:128, 35:150- 35:151, 39:32, 40:71, 44:10, 56:02, 56:04, 56:11, 56:22				4					9			
*35:18, 44:28:01-44:28:02, 57:02:01- 57:02:02, 57:04-57:05, 57:12, 57:28N									9			
*35:20:01-35:20:02, 35:28									9	10	11	
*35:21		2				6		8			11	
*35:24:01-35:24:02, 57:14		2				6			9	10	11	
*35:29, 35:69, 35:76									9	10	11	
*35:38, 45:02, 82:01-82:03, C*04:34				4					9			
*35:50									9	10	11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*35:51									9	10	11	
*35:58								8			11	
*35:62, 57:27									9	w	11	
*35:66										w	11	
*35:72									9	10	11	
*35:81		2							9			

*35:84				4					9			
*35:109		2		4					9			
*35:136				4					9			
*35:141									9		11	
*37:01:01-37:01:05, 37:01:07, 37:03N, 37:05, 37:08, 37:15-37:18, 37:20, 37:22-37:25				3				7				
*37:01:06								7				
*37:02				3								
*37:04:01-37:04:02		2		3				7				
*37:06								7				
*37:07				3					8			
*37:09, 37:12, 37:19				3								
*37:10						5		7				
*37:11, 37:14								7				
*37:13				3				7	8			
*37:21				3				7				
*38:06-38:07	1											
*39:09								7				
*39:19:01-39:19:02												
*39:24, 39:37												
*39:33				4					9			
*40:03										10		
*40:20, 40:38, 40:52, 40:59-40:60, 40:105, 46:06, 48:23										10		
*44:02:08, 44:101									w			
*44:06, 51:08, 51:44N	1								9			
*44:15				4		6			9			12
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*44:18, 45:01, 45:04-45:07, 45:13, 56:13				4					9			12
*44:83					5				9			
*44:109						6			9			
*45:03									9			12
*45:11				4								12
*45:12				4					9			12
*46:09, 46:25									9		11	

*49:01:01, 49:02, 49:06, 49:08-49:10, 49:12-49:15, 50:01:01-50:02, 50:04-50:08, 50:10-50:11, 56:25				4				8				12
*49:01:02				4				8				12
*49:03	1			4				8				12
*51:01:01-51:03, 51:06-51:07:02, 51:11N-51:12, 51:14, 51:16-51:18, 51:21-51:24:04, 51:26-51:28, 51:30, 51:32-51:35, 51:38-51:39, 51:41N, 51:43, 51:48-51:52, 51:58-51:60, 51:64-51:71, 51:74-51:77, 51:79-51:80, 51:83-51:86, 51:88-51:90, 51:94-51:96, 51:98N-51:102, 51:105, 52:06:01-52:06:02	1							8				
*51:04, 51:46, 51:56	1	2						8				
*51:05	1								9			
*51:09:01-51:09:02, 51:19, 51:40, 51:42, 51:73	1								9			
*51:10, 51:31, 51:81, 51:93	1											
*51:13:01-51:13:02, 51:62, 51:92, 51:106	1			4				8				
*51:15	1			4					9			12
*51:20	1								9			
*51:29	1							8				
*51:36, 51:55, 51:61, 51:82	1							8				
*51:37, 51:45, 51:63	1					6		8			11	
*51:53	1											
*51:54					5				9			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	270	135	190	155	205	130	170	75	150	85	105
PCR product(s)			290			235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*51:57, 51:103	1							8				
*51:72, 51:87, 51:91	1							8				
*51:78					5			8				
*51:97	1				5	6			9		11	
*52:01:01-52:01:06, 52:04-52:05, 52:07-52:08, 52:11-52:13, 52:15, 52:17-52:18, 52:22	1							8				
*52:09	1		3					8				
*52:14	1			4				8				
*52:19	1								9			
*52:20					5			8				
*52:21	1							8				

*56:06, 78:01, 78:03, 78:07								8					
*57:30												11	
*58:01:01-58:01:02, 58:01:04-58:02, 58:04, 58:07, 58:10N-58:16, 58:18, 58:21, 58:23-58:26, 58:29-58:31N	1									9	10	11	
*58:01:03	1									9	10		
*58:05	1											11	
*58:06, 58:19	1							8				11	
*58:08	1							8					
*58:09	1	2					6			9	10	11	
*58:17N										9	10	11	
*58:20, 58:27	1												
*58:22	1									9	w	11	
*58:28	1									9			
A*02:188											w		
C*03:12, C*03:19, C*03:26, C*03:102				w									
C*03:28, C*03:49, C*14:20													
C*04:08, C*05:39				4									
C*05:27, C*08:41, C*15:15, C*17:07				4									
C*06:20, C*07:81												w	
C*07:68, C*07:140, C*07:151							5						
C*08:08													
C*15:39		2											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	

INTERPRETATION TABLE									
HLA-B*53 SSP subtyping									
Amplification patterns of the B*53:01 to B*53:24 alleles									
Well ⁵									
13	14	15	16	17	18	19	20		
90	95	105	160	275	140	125	60		Length of spec. PCR product(s)
	130	205							
1070	1070	800	1070	1070	1070	1070	1070		Length of int. pos. control ¹
209	106	206	539	77	106	209	539		5'-primer(s) ²
5'-ggA ^{3'}	5'-CCA ^{3'}	5'-gAC ^{3'}	5'-gCT ^{3'}	5'-CTT ^{3'}	5'-CCg ^{3'}	5'-ggA ^{3'}	5'-gCg ^{3'}		
	363	397							
	5'-AgC ^{3'}	5'-gCT ^{3'}							
256	197	272	3 rd I	309	206	292	559		3'-primer(s) ³
5'-CTC ^{3'}	5'-gAA ^{3'}	5'-Tgg ^{3'}	5'-TAT ^{3'}	5'-ATC ^{3'}	5'-CCg ^{3'}	5'-gTC ^{3'}	5'-CAG ^{3'}		
256	419	559				292			
5'-CCC ^{3'}	5'-Cgg ^{3'}	5'-CAG ^{3'}				5'-gTC ^{3'}			
	419								
	5'-CgA ^{3'}								
13	14	15	16	17	18	19	20		Well No.
									HLA-B allele
			16						*53:01:01-53:01:05
			16						*53:02
			16						*53:03
			16						*53:04
13	14	15	16	17	18	19	20		Well No.
90	95	105	160	275	140	125	60		Length of spec. PCR product(s)
	130	205							

13	14	15	16	17	18	19	20	Well No.		
			16					*53:05		
			16					*53:06		
			16					*53:07		
			16					*53:08:01-53:08:02		
		15	16					*53:09		
	14		16					*53:10		
							20	*53:11		
			16					*53:12		
			16					*53:13		
	14		16					*53:14		
			16					*53:15		
							20	*53:16		
		15	16					*53:17		
			16					*53:18		
		15	16					*53:19, 52:03, 52:10 ⁴		
			16	17				*53:20		
			16		18			*53:21		
								*53:22		
			16			19		*53:23		
							20	*53:24		
13	14	15	16	17	18	19	20	Well No.		

90	95	105	160	275	140	125	60	Length of spec.		
	130	205						PCR product(s)		
13	14	15	16	17	18	19	20	Well No.		
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	14							*07:09, 07:11, 07:17, 07:115		
							20	*07:20, 07:24, 07:60, 15:99, 44:76		
			16					*07:26, 07:34, 07:43, 07:80, 13:20, 14:01:01-14:02:06, 14:04, 14:06:01-14:09, 14:11-14:18, 15:09-15:10:02, 15:17:01:01-15:17:02, 15:37, 15:72, 15:90, 15:177, 15:196, 15:208, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:24, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 38:10, 39:35, 40:05, 40:26, 40:51, 40:95, 40:148, 44:79, 48:15, 51:104, 52:02, 52:16, 55:01:04, 55:17, 55:28, 55:44, 56:05:01-56:05:02, 56:21, 78:02:01-78:02:02, 78:05-78:06		
13	14	15	16	17	18	19	20	Well No.		

90	95	105	160	275	140	125	60	Length of spec.		
	130	205						PCR product(s)		
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						19		*07:65		
								*07:78, 13:31, 54:20, 55:09, 55:21		
13	14	15	16	17	18	19	20	Well No.		

90	95	105	160	275	140	125	60	Length of spec.		
	130	205						PCR product(s)		
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			16					*08:25, 15:48, 27:38, 35:04:01-35:04:03, 35:09:01-35:09:02, 35:12:01-35:12:02, 35:22, 35:34, 35:39, 35:149, 40:63, 40:92, 44:03:01-44:03:12, 44:07, 44:13, 44:26, 44:29, 44:32, 44:36-44:40, 44:45-44:47, 44:50, 44:54, 44:57, 44:60-44:61N, 44:65, 44:69, 44:77, 44:81-44:82, 44:85, 44:94, 44:96, 44:98, 44:103, 44:105, 44:107-44:108N, 44:110-44:111, 44:114-44:115, 55:08, 56:15, 57:03:01-57:03:02, 57:07, 57:17, 57:32, 78:04		
	14							*08:28, 08:35, 08:37, 42:09		
						19		*08:32		
								*08:49, 08:60, 42:13		
13	14	15	16	17	18	19	20	Well No.		
90	95	105	160	275	140	125	60	Length of spec.		
	130	205						PCR product(s)		
13	14	15	16	17	18	19	20	Well No.		

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			16					*13:03, 46:11, 49:11, 54:03, 56:01:01-56:01:04, 56:07-56:08, 56:14, 56:16-56:17, 56:20, 56:24, 56:26-56:30, 59:04		
			16					*13:04, 15:05:01-15:05:02, 15:20, 15:91, 15:123, 15:136, 15:151, 15:155, 35:01:01:01-35:01:21, 35:05:01-35:05:02, 35:07, 35:10, 35:16-35:17, 35:19, 35:23, 35:25-35:27, 35:30, 35:32, 35:37, 35:40N-35:42:02, 35:46-35:49, 35:52, 35:54, 35:57, 35:63, 35:68:01-35:68:02, 35:71, 35:77-35:78, 35:82, 35:89-35:92, 35:94, 35:97, 35:101:01-35:101:02, 35:103-35:104, 35:107-35:108:02, 35:110-35:113, 35:116, 35:119-35:126, 35:130N-35:134N, 35:137-35:139, 35:143-35:148, 44:43:01-44:43:02, 46:13:01-46:13:03, 46:19, 46:26, 48:02:01-48:02:02, 56:09, 57:01:01-57:01:02, 57:01:04, 57:01:06-57:01:10, 57:06, 57:08, 57:10-57:11, 57:15-57:16, 57:18, 57:20-57:21, 57:23, 57:29, 57:33-57:37		
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90	95	105	160	275	140	125	60	Length of spec.		
	130	205						PCR product(s)		
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16								*13:16, 15:42, 49:07, 55:01:01-55:01:03, 55:01:05-55:01:06, 55:03, 55:05, 55:11, 55:15, 55:24-55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:45		
								*13:18, 45:08, 45:10, 54:10, 55:37		
16								*13:25		
16								*13:26, 15:52, 15:114, 15:124, 15:186, 27:41, 35:01:22, 35:15, 35:35, 35:93, 35:140, 39:07, 46:21:01-46:21:02, 48:14, 54:09, 54:14, 55:23, 55:32, 56:18, 57:01:03, 57:25-57:26		
14				16				*14:05		
				16				*14:10, 35:96, 40:28		
				16				*14:19, 15:133, 50:09, 50:12		
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90	95	105	160	275	140	125	60	Length of spec.		
	130	205						PCR product(s)		
13	14	15	16	17	18	19	20	Well No.		

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			16					<p>*15:02:01-15:02:05, 15:06, 15:13, 15:21, 15:25:01-15:25:02, 15:36, 15:44, 15:89, 15:106, 15:112, 15:121, 15:139, 15:156, 15:170, 15:204, 49:05</p>		
13	14	15	16	17	18	19	20	Well No.		

90	95	105	160	275	140	125	60	Length of spec.		
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	14							*15:07:01-15:07:02, 15:68, 46:12		
			16					*15:31		
								*15:32		
								*15:38:01-15:38:02		
								*15:51, 15:179, 35:115, 44:17, 45:09, 57:24		
	14		16					*15:55		
								*15:58, 15:73, 15:137		
							20	*15:65, 35:99		
								*15:75, 15:105, 15:111N, 15:145		
							20	*15:84, 35:08:01-35:08:04, 35:45, 35:61, 35:80, 35:100, 35:105, 35:142, 57:19		
			w					*15:88		
			16					*15:107, 35:53N, 35:64, 35:114, 57:01:05, 57:31		
			16					*15:115		
								*15:128, 15:144		
			w					*15:176, 15:200		
			16					*15:185		
								*15:199		
		15						*15:202		
13	14	15	16	17	18	19	20	Well No.		
90	95	105	160	275	140	125	60	Length of spec.		
	130	205						PCR product(s)		
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		15	16		18			*18:01:04, 18:40		
		15	16		18	19		*18:03		
		15	16					*18:04, 18:25		
			16		18			*18:07:01-18:07:02, 18:29, 18:33		
		15	16		18			*18:09		
		15	16		18			*18:10-18:11, 18:35		
		15			18			*18:13		
14		15	16		18			*18:14		
		15	16		18			*18:15		
		15	16		18			*18:18		
		15			18			*18:19, 18:30		
		15	16		18			*18:20		
		15			18			*18:21		
		15	16		18			*18:22		
		15	16		18			*18:26, 18:41		
		15	16		18			*18:36		
			16					*18:37, 18:48, 39:43		
			16		18			*27:52		
		15	16					*35:02:01-35:02:04, 35:83, 35:95, 35:129N		
			16					*35:03:01-35:03:05, 35:03:07, 35:06, 35:13, 35:36, 35:55-35:56, 35:59, 35:70, 35:74-35:75, 35:85, 35:98, 35:106, 35:127-35:128, 35:150- 35:151, 39:32, 40:71, 44:10, 56:02, 56:04, 56:11, 56:22		
						20		*35:18, 44:28:01-44:28:02, 57:02:01- 57:02:02, 57:04-57:05, 57:12, 57:28N		
		15	16					*35:20:01-35:20:02, 35:28		
			16					*35:21		
			16			19		*35:24:01-35:24:02, 57:14		
			16					*35:29, 35:69, 35:76		
								*35:38, 45:02, 82:01-82:03, C*04:34		
			16		18			*35:50		
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90	95	105	160	275	140	125	60	Length of spec.		
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13	14	15	16	17	18	19	20	Well No.		
	14		16					*35:51		
	14		16					*35:58		
								*35:62, 57:27		
	14							*35:66		
	14	15	16					*35:72		
		15	16					*35:81		

			16		18				*35:84		
			16						*35:109		
			16			19			*35:136		
			16						*35:141		
		15			18				*37:01:01-37:01:05, 37:01:07, 37:03N, 37:05, 37:08, 37:15-37:18, 37:20, 37:22-37:25		
					18				*37:01:06		
		15	16		18				*37:02		
		15			18				*37:04:01-37:04:02		
									*37:06		
		15			18				*37:07		
		15			18				*37:09, 37:12, 37:19		
		15			18				*37:10		
		15			18				*37:11, 37:14		
		15			18				*37:13		
					18				*37:21		
			16		18				*38:06-38:07		
			16						*39:09		
			16		18	19			*39:19:01-39:19:02		
	14		16						*39:24, 39:37		
							20		*39:33		
	14		16						*40:03		
			16						*40:20, 40:38, 40:52, 40:59-40:60, 40:105, 46:06, 48:23		
									*44:02:08, 44:101		
									*44:06, 51:08, 51:44N		
									*44:15		
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90	95	105	160	275	140	125	60		Length of spec.		
	130	205							PCR product(s)		
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									*44:18, 45:01, 45:04-45:07, 45:13, 56:13		
		15							*44:83		
			16						*44:109		
									*45:03		
									*45:11		
		15							*45:12		
									*46:09, 46:25		

			16					*49:01:01, 49:02, 49:06, 49:08-49:10, 49:12-49:15, 50:01:01-50:02, 50:04-50:08, 50:10-50:11, 56:25		
			w					*49:01:02		
		15	16					*49:03		
								*51:01:01-51:03, 51:06-51:07:02, 51:11N-51:12, 51:14, 51:16-51:18, 51:21-51:24:04, 51:26-51:28, 51:30, 51:32-51:35, 51:38-51:39, 51:41N, 51:43, 51:48-51:52, 51:58-51:60, 51:64-51:71, 51:74-51:77, 51:79-51:80, 51:83-51:86, 51:88-51:90, 51:94-51:96, 51:98N-51:102, 51:105, 52:06:01-52:06:02		
			16					*51:04, 51:46, 51:56		
							20	*51:05		
			16					*51:09:01-51:09:02, 51:19, 51:40, 51:42, 51:73		
			16					*51:10, 51:31, 51:81, 51:93		
			16					*51:13:01-51:13:02, 51:62, 51:92, 51:106		
			16					*51:15		
						19		*51:20		
							20	*51:29		
								*51:36, 51:55, 51:61, 51:82		
			16					*51:37, 51:45, 51:63		
			w					*51:53		
							20	*51:54		
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90	95	105	160	275	140	125	60	Length of spec.		
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13	14	15	16	17	18	19	20	Well No.		
			16		18			*51:57, 51:103		
			w					*51:72, 51:87, 51:91		
			16					*51:78		
								*51:97		
		15	16					*52:01:01-52:01:06, 52:04-52:05, 52:07-52:08, 52:11-52:13, 52:15, 52:17-52:18, 52:22		
		15	16					*52:09		
		15	16					*52:14		
		15						*52:19		
		15	16					*52:20		
		15						*52:21		

			16			19			*56:06, 78:01, 78:03, 78:07		
							20		*57:30		
13			16						*58:01:01-58:01:02, 58:01:04-58:02, 58:04, 58:07, 58:10N-58:16, 58:18, 58:21, 58:23-58:26, 58:29-58:31N		
13			16						*58:01:03		
13			16						*58:05		
13			16						*58:06, 58:19		
13			16						*58:08		
13			16						*58:09		
13			16						*58:17N		
13			16						*58:20, 58:27		
13							20		*58:22		
13			16						*58:28		
									A*02:188		
									C*03:12, C*03:19, C*03:26, C*03:102		
							20		C*03:28, C*03:49, C*14:20		
							20		C*04:08, C*05:39		
									C*05:27, C*08:41, C*15:15, C*17:07		
									C*06:20, C*07:81		
									C*07:68, C*07:140, C*07:151		
	14								C*08:08		
									C*15:39		
13	14	15	16	17	18	19	20		Well No.		

